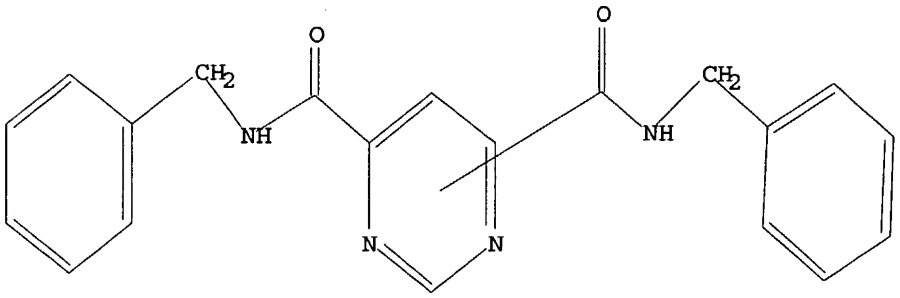
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 21-22
21-26 22-23 23-24 24-25 25-26
exact/norm bonds :
7-8 7-9 17-18 17-19
exact bonds :
3-7 8-10 10-11 19-20 20-21
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 21-22
21-26 22-23 23-24 24-25 25-26
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 12:32:39 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 65 TO ITERATE

100.0% PROCESSED 65 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 817 TO 1783
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 12:32:46 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1367 TO ITERATE

100.0% PROCESSED 1367 ITERATIONS 33 ANSWERS
SEARCH TIME: 00.00.01

L3 33 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.42	155.90

FILE 'CAPLUS' ENTERED AT 12:32:52 ON 19 APR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 19 Apr 2004 VOL 140 ISS 17
FILE LAST UPDATED: 18 Apr 2004 (20040418/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 4 L3

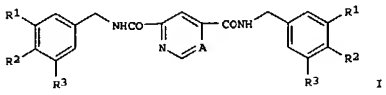
=> d ibib abs hitstr tot

own work

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:467290 CAPLUS
DOCUMENT NUMBER: 139:53028
TITLE: Preparation of 2,4-pyridinedicarboxamides and 4,6-pyrimidinedicarboxamides as inhibitors of collagenase (MMP 13)
INVENTOR(S): Habermann, Joerg; Weithmann, Klaus-Ulrich; Kogler, Herbert; Kirsch, Reinhard; Wehner, Volkmar
PATENT ASSIGNEE(S): Aventis Pharma Deutschland G.m.b.H., Germany
SOURCE: Ger. Offen., 20 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10160357	A1	20030618	DE 2001-10160357	20011208
WO 2003049738	A1	20030619	WO 2002-EP13240	20021125
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003229103	A1	20031211	US 2002-65994	20021209

PRIORITY APPLN. INFO.: DE 2001-10160357 A 20011208
US 2002-358887P P 20020222
OTHER SOURCE(S): MARPAT 139:53028
GI

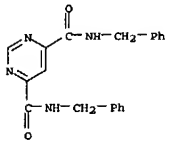


I

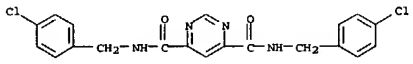
AB Title compds. [I; A = CH, N; R1-R3 = H, halo, (halogenated) alkyl, alkoxy, OH, CO2R4, cyano, NR5R6, etc.; R4 = H, alkyl; R5, R6 = H, alkyl, alkylcarbonyl, etc.; or R1R2, R2R3 = 5-6 membered (aromatic) (saturated) (hetero)cyclyl], were prepd for the treatment of degenerative joint diseases. Thus, 4,6-pyrimidinedicarboxylic acid in SOCl2 was stirred for 2 h at 85° followed by addition of CH2Cl2 at room temperature and Et3N at 0°. The reaction mixture was further stirred with 3-chloro-4-fluorobenzylamine for 15 min to give 40% N,N-bis(3-chloro-4-fluorobenzyl)pyrimidine-4,6-dicarboxamide. The latter inhibited collagenase 3 (MMP 13) with IC50 = 23 nM.

IT 135002-40-3P 448949-33-5P 448949-34-6P
448949-35-7P 448949-36-8P 544678-67-3P
544678-69-5P 544678-70-8P 544678-75-3P
544678-76-4P 544678-78-6P 544678-79-7P
544678-80-0P 544678-81-1P 544678-82-2P
544678-83-3P 544678-84-4P 544678-85-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyridine- and pyrimidinedicarboxamides as inhibitors of collagenase (MMP 13))

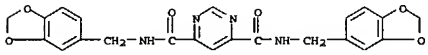
RN 135002-40-3 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 448949-33-5 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

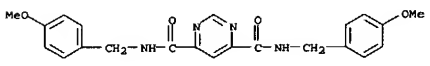


RN 448949-34-6 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis(1,3-benzodioxol-5-ylmethyl)- (9CI) (CA INDEX NAME)

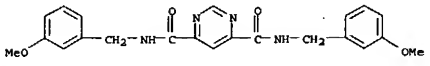


RN 448949-35-7 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(4-methoxyphenyl)methyl]- (9CI) (CA

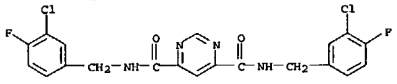
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
INDEX NAME)



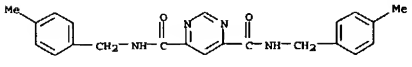
RN 448949-36-8 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(3-methoxyphenyl)methyl]- (9CI) (CA
INDEX NAME)



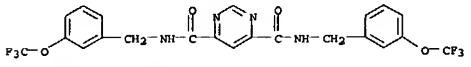
RN 544678-67-3 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(3-chloro-4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)



RN 544678-69-5 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(4-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

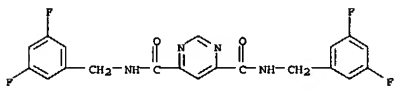


RN 544678-70-8 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[[3-(trifluoromethoxy)phenyl]methyl]- (9CI) (CA INDEX NAME)

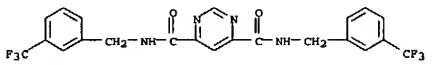


RN 544678-75-3 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(3,5-difluorophenyl)methyl]- (9CI)

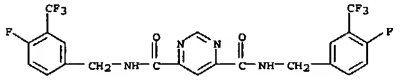
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(CA INDEX NAME)



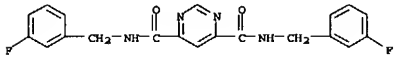
RN 544678-76-4 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[[3-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



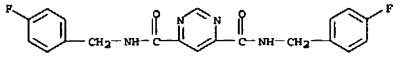
RN 544678-78-6 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[[4-fluoro-3-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



RN 544678-79-7 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(3-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

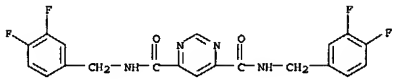


RN 544678-80-0 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

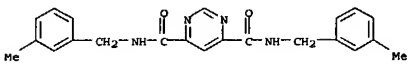


RN 544678-81-1 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(3,4-difluorophenyl)methyl]- (9CI)

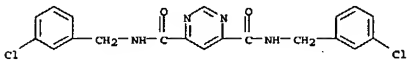
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(CA INDEX NAME)



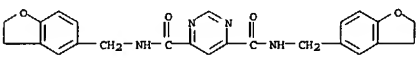
RN 544678-82-2 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(3-methylphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 544678-83-3 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(3-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

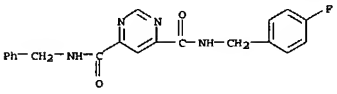


RN 544678-84-4 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(2,3-dihydro-5-benzofuranyl)methyl]- (9CI) (CA INDEX NAME)

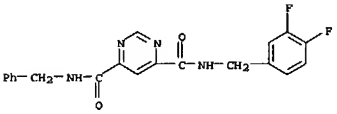


RN 544678-85-5 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(4-fluoro-3-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

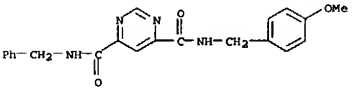
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



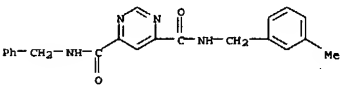
RN 544678-90-2 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N-[(3,4-difluorophenyl)methyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 544678-91-3 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N-[(4-methoxyphenyl)methyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)

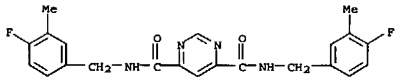


RN 544678-92-4 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N-[(3-methylphenyl)methyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



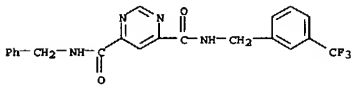
RN 544678-93-5 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N-[(3-chlorophenyl)methyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

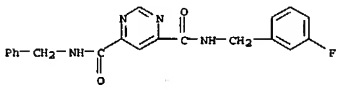


IT **544678-87-7P 544678-88-8P 544678-89-9P**
544678-90-2P 544678-91-3P 544678-92-4P
544678-93-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyridine- and pyrimidinedicarboxamides as inhibitors of
collagenase (MMP 13))

RN 544678-87-7 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N-(phenylmethyl)-N'-[(3-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

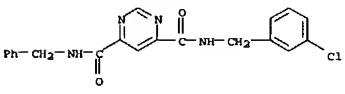


RN 544678-88-8 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N-[(3-fluorophenyl)methyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 544678-89-9 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N-[(4-fluorophenyl)methyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)

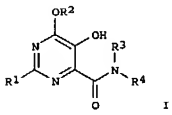
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:334911 CAPLUS
DOCUMENT NUMBER: 138:354000
TITLE: Preparation of dihydroxypyrimidine carboxamide inhibitors of HIV integrase
INVENTOR(S): Di Francesco,' Maria Emilia; Gardelli, Cristina; Harper, Steven; Matassa, Victor Giulio; Muraglia, Ester; Nizi, Emanuela; Pace, Paola; Pacini, Barbara; Petrocchi, Alessia; Poma, Marco; Summa, Vincenzo
PATENT ASSIGNEE(S): Istituto Di Ricerche Di Biologia Molecolare P. Angeletti Spa, Italy
SOURCE: PCT Int. Appl., 315 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003035076	A1	20030501	WO 2002-GB4742	20021021
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

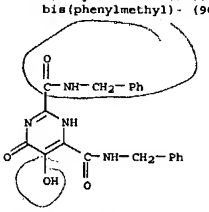
PRIORITY APPLN. INFO.: US 2001-348195P P 20011026
OTHER SOURCE(S): MARPAT 138:354000
GI



I

AB The title 4,5-dihydroxypyrimidine-6-carboxamides [I; R1 = H, alkyl, haloalkyl, alkoxy, etc.; R2 = H, alkyl, haloalkyl, hydroxyalkyl, etc.; R3 = H, alkyl; R4 = H, alkyl, haloalkyl, etc.] which are inhibitors of HIV integrase and inhibitors of HIV replication, and therefore are useful in the prevention and treatment of infection by HIV and in the prevention, delay in the onset, and treatment of AIDS, were prepared Thus, refluxing N-hydroxythiophene-2-carboximidamide with di-Me acetylenedicarboxylate in CHCl3 followed by reacting the resulting Me 5,6-dihydroxy-2-(2-

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
thienyl)pyrimidine-4-carboxylate with 4-fluorobenzylamine in DMF afforded I [R1 = 2-thienyl; R2 = H; R3 = 4-FC6H4CH2; R4 = H]. The compds. I are employed against HIV infection and AIDS as compds. per se or in the form of pharmaceutically acceptable salts. The compds. I and their salts can be employed as ingredients in pharmaceutical compns., optionally in combination with other antivirals, immunomodulators, antibiotics or vaccines.
IT **519025-39-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of dihydroxypyrimidine carboxamide inhibitors of HIV integrase)
RN 519025-39-9 CAPLUS
CN 2,4-Pyrimidinedicarboxamide, 1,6-dihydro-5-hydroxy-6-oxo-N,N'-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

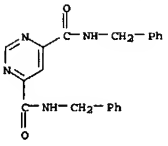


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

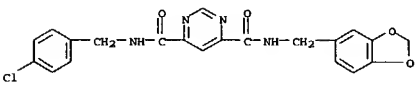
L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:637659 CAPLUS
DOCUMENT NUMBER: 137:185500
TITLE: Preparation and formulation of pyrimidine-4,6-dicarboxamides as MMP-13 inhibitors
INVENTOR(S): Barvian, Nicole Chantel; Patt, William Chester
PATENT ASSIGNEE(S): Warner-Lambert Company, USA
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002064571	A1	20020822	WO 2002-IB190	20020118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1368323	A1	20031210	EP 2002-740096	20020118
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002007209	A	20040127	BR 2002-7209	20020118
US 2002151555	A1	20021017	US 2002-75909	20020213

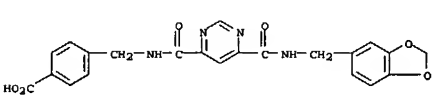
PRIORITY APPLN. INFO.: US 2001-268779P P 20010214
WO 2002-IB190 W 20020118
OTHER SOURCE(S): MARPAT 137:185500
AB Z[C(:X)R]2 [each R independently = OR4 or NR4R5; R4,R5 = H, alkyl, (hetero)aryl, etc.; NR4R5 = heterocyclyl; X = O or S; Z = 2-(un)substituted pyrimidine-4,6-diyl] were prepared as MMP-13 inhibitors (no data). Thus, pyrimidine-4,6-dicarboxylic acid was amidated by PhCH2NH2 to give pyrimidine-4,6-dicarboxylic acid bis(benzylamide).
IT **135002-40-3P 448949-19-7P 448949-20-0P**
448949-21-1P 448949-22-2P 448949-23-3P
448949-33-5P 448949-34-6P 448949-35-7P
448949-36-8P 448949-37-9P 448949-38-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and formulation of pyrimidine-4,6-dicarboxamides as MMP-13 inhibitors)
RN 135002-40-3 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



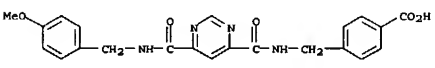
RN 448949-19-7 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N-(1,3-benzodioxol-5-ylmethyl)-N'-[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)



RN 448949-20-0 CAPLUS
CN Benzoic acid, 4-[[[[6-[[(1,3-benzodioxol-5-ylmethyl)amino]carbonyl]-4-pyrimidinyl]carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)

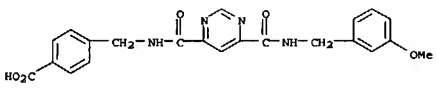


RN 448949-21-1 CAPLUS
CN Benzoic acid, 4-[[[[6-[[[(4-methoxyphenyl)methyl]amino]carbonyl]-4-pyrimidinyl]carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)

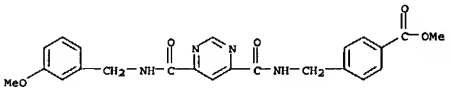


RN 448949-22-2 CAPLUS
CN Benzoic acid, 4-[[[[6-[[[(3-methoxyphenyl)methyl]amino]carbonyl]-4-pyrimidinyl]carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)

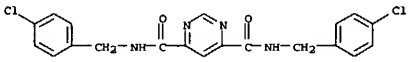
L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



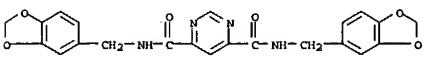
RN 448949-23-3 CAPLUS
CN Benzoic acid, 4-[[[[6-[[[(3-methoxyphenyl)methyl]amino]carbonyl]-4-pyrimidinyl]carbonyl]amino]methyl]-, methyl ester (9CI) (CA INDEX NAME)



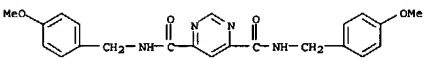
RN 448949-33-5 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(4-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)



RN 448949-34-6 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis(1,3-benzodioxol-5-ylmethyl)- (9CI) (CA INDEX NAME)

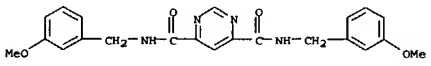


RN 448949-35-7 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

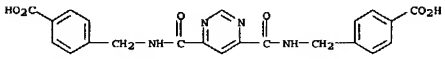


L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

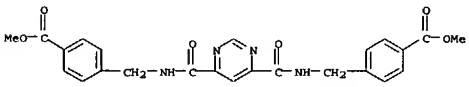
RN 448949-36-8 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[(3-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)



RN 448949-37-9 CAPLUS
CN Benzoic acid, 4,4'-[4,6-pyrimidinediylbis(carbonyliminomethylene)]bis- (9CI) (CA INDEX NAME)



RN 448949-38-0 CAPLUS
CN Benzoic acid, 4,4'-[4,6-pyrimidinediylbis(carbonyliminomethylene)]bis-, dimethyl ester (9CI) (CA INDEX NAME)



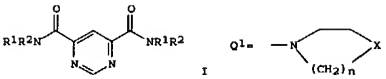
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:471610 CAPLUS
DOCUMENT NUMBER: 115:71610
TITLE: Preparation of pyrimidine-4,6-dicarboxylic acid diamides as proline- and lysine hydroxylase inhibitors
INVENTOR(S): Baader, Ekkehard; Bickel, Martin; Guenzler-Pukall, Volkmar; Henke, Stephan
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 418797	A2	19910327	EP 1990-117894	19900918
EP 418797	A3	19910508		
EP 418797	B1	19940824		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DE 3931432	A1	19910404	DE 1989-3931432	19890921
ES 2062239	T3	19941216	ES 1990-117894	19900918
DD 295835	A5	19911114	DD 1990-344102	19900919
US 5130317	A	19920714	US 1990-584655	19900919
SU 1836359	A3	19930823	SU 1990-4831137	19900919
IL 95740	A1	19940731	IL 1990-95740	19900919
CA 2025799	AA	19910322	CA 1990-2025799	19900920
NO 9004114	A	19910322	NO 1990-4114	19900920
AU 9062698	A1	19910411	AU 1990-62698	19900920
AU 633142	B2	19930121		
ZA 9007535	A	19910626	ZA 1990-7535	19900920
JP 03240776	A2	19911028	JP 1990-249018	19900920
PL 164989	B1	19941031	PL 1990-286972	19900920
HU 55002	A2	19910429	HU 1990-6007	19900921
HU 207853	B	19930628		

PRIORITY APPLN. INFO.: DE 1989-3931432 19890921
OTHER SOURCE(S): MARPAT 115:71610
GI



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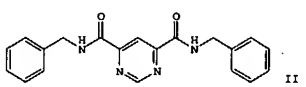


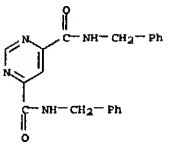
II

AB Title compds. [I; R1 = (substituted) alkyl, alkenyl, alkynyl,

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

(benzo-annelated) cycloalkyl, (substituted) (hetero)aryl, amino; R2 = H, R1; R1R2N = Q1; R3 = H, (substituted) Ph, alkyl, alkenyl, alkynyl, alkoxycarbonyl, cycloalkyl; n = 1-3], were prepd. Thus, pyrimidine-4,6-dicarboxylic acid was refluxed .apprx.3 h with SOCl2 and cat. DMF in PhMe; the mixt. was cooled to 0-10° and treated with PhCH2NH2 and Et3N followed by 12 h stirring at room temp. to give title compd. II. II at 50 mg/kg orally daily showed 21% redn. in CCl4-induced liver hydroxyproline concn. in rats.

IT **135002-40-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as proline- and lysinehydroxylase inhibitor)
RN 135002-40-3 CAPLUS
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



L Number	Hits	Search Text	DB	Time stamp
1	4931	544/333, 544/335, 514/256	USPAT; US-PGPUB	2004/04/19 15:02
2	2749	MMP13 or matrix adj metalloproteinase	USPAT; US-PGPUB	2004/04/19 15:02
3	64	(544/333, 544/335, 514/256) and (MMP13 or matrix adj metalloproteinase)	USPAT; US-PGPUB	2004/04/19 15:02

Day : Monday
Date: 4/19/2004
Time: 13:27:23

PALM INTRANET

Inventor Information for 10/065994

Inventor Name	City	State/Country
WEITHMANN, KLAUS-ULRICH	HOFHEIM	GERMANY
WEITHMANN, KLAUS-ULRICH	HOFHEIM	GERMANY
HABERMANN, JORG	BREMERHAVEN	GERMANY
HABERMANN, JORG	BAD SODEN	GERMANY
KOGLER, HERBERT	GLASHUTTEN	GERMANY
KOGLER, HERBERT	GLASHUTTEN	GERMANY
KIRSCH, REINHARD	BRAUNSCHWEIG	GERMANY
KIRSCH, REINHARD	BRAUNSCHWEIG	GERMANY
WEHNER, VOLKMAR	SANDBERG	GERMANY
WEHNER, VOLKMAR	SANDBERG	GERMANY

Appln Info | Contents | Petition Info | Atty/Agent Info | Continuity Data | Foreign Data

Search Another: Application# [ ] Search **or Patent#** [ ] Search

PCT / [ ] / [ ] Search **or PG PUBS #** [ ] Search

Attorney Docket # [ ] Search

Bar Code # [ ] Search

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